

N<sup>o</sup> 26,739



A.D. 1904

*Date of Application, 8th Dec., 1904*

*Complete Specification Left, 8th Sept., 1905—Accepted, 16th Nov., 1905*

**PROVISIONAL SPECIFICATION.**

**Improvements in and connected with Means for Locking Nuts, Bolts,  
and the like**

DALE MARSHALL 30 Winchcombe Street Cheltenham in the County of Gloucestershire Engineer, do hereby declare the nature of this invention to be as follows:—

In locking devices for nuts bolts and the like in which a metal cap is used  
5 which partly encloses a portion of a nut or is otherwise fixed to it, and is centrally shaped to engage with a bolt or the like for the purpose of preventing it and likewise the nut from turning on the bolt.

I form on that portion of the locking cap nearest to the bolt, raised portions to act as guides for and to enable a wedge or wedges to be inserted between  
10 them and the threads of the bolt to prevent the cap from disengaged from the nut which it is securing against axial rotation,

Dated this the Seventh day of December 1904.

DALE MARSHALL.

**COMPLETE SPECIFICATION.**

**15 Improvements in and connected with Means for Locking Nuts Bolts  
and the like.**

I, DALE MARSHALL, of 30 Winchcombe Street Cheltenham, in the County of Gloucestershire Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described  
20 and ascertained in and by the following statement:—

This invention relates to locking devices for nuts and the like in which a metal cap is used which partly encloses a portion of a nut, or is otherwise fixed to it and is centrally shaped to engage with a bolt or the like for the purpose of preventing it and likewise the nut from turning on each other.  
25 And according thereto I form on that portion of the locking cap nearest to the bolt, raised portions to act as guides for and to enable a wedge or wedges to be inserted between them and the threads of the bolt to prevent the cap from becoming disengaged from the nut which it is securing against axial rotation.

In order that my invention may be readily understood reference may be  
30 had to the accompanying drawings of which

Fig. 1, is a view in plan of the locking cap in position on a bolt locked.

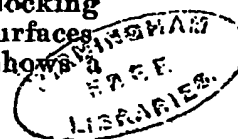
Fig. 2 is a side elevation of the same partly in section showing the wedges and the under portion of locking cap.

Fig. 3. shows the wedges before being driven in.

35 Figs. 4. 5: and 6 are modifications of the same device in which the locking cap is made in two pieces and adjustably connected together by toothed surfaces which form is intended to provide finer adjustment for a nut. Fig. 6. shows a view in plan of Fig. 5.

[Price 8d.]

Best Available Copy



*Improvements in and connected with Means for Locking Nuts, Bolts and the like.*

In carrying my invention into effect I use a metal cap or muzzle A, conforming internally to the external shape and size of a nut B, and a bolt C, having a flattened surface or groove D, which prevents both the cap and the nut B turning on the bolt C, and on the upper surface of this metal cap I form slightly canted lugs or projections E and E<sup>1</sup> adjacent to the threads F and 5 on either side of the bolt C, and I also form other lugs G and G<sup>1</sup> at the rear of the aforementioned lugs E and E<sup>1</sup> and provide wedges H and H<sup>1</sup> as shown in Fig. 3.

In operation the metal cap A is placed in its position over the bolt C and the nut B, I then drive the wedges H and H<sup>1</sup> in between the canted lugs E 10 and E<sup>1</sup> and the threads F on either side of the bolt C thereby forcing the cap A tightly down on to the nut B and securing it, meanwhile the forward end of the wedges are forced outwards and clenched by coming into contact with the surfaces of the lugs G and G<sup>1</sup>.

The wedges H and H<sup>1</sup> may be connected at their head ends as shown in 15 Fig. 3.

In another form, as shown in Figs. 4, 5, and 6, I make the cap in two parts. On part A which is internally shaped to engage with the bolt C, I form the lugs E and E<sup>1</sup> G and G<sup>1</sup>, and on a portion of its under side I form a circle of teeth J, and on the upper part of A<sup>1</sup> Fig. 5. and 6. I form a circle of teeth J<sup>1</sup> 20 coinciding with and fitting into the teeth J on part A. The under side of A<sup>1</sup> is shaped to fit over a nut B the method and operation of fixing being the same as in Figs. 1, 2, and 3. This form permits of a very fine adjustment to the nut B.

Having now particularly described and ascertained the nature of my said 25 invention and in what manner the same is to be performed, I declare that what I claim is

Claim 1. In locking devices for nuts bolts and the like which use a metal cap or muzzle engaging both a nut and a bolt to prevent them becoming detached from each other, the insertion of a wedge or wedges between the threads on 30 either side of the bolt and lugs or guides formed on the metal cap or muzzle and the securing of the wedges themselves by their ends being turned out and clenched during their insertion by contact with other lugs also formed on the metal cap or muzzle.

Claim 2. In locking devices of Claim 1, a metal cap or muzzle for engaging 35 a nut and bolt having raised portions or lugs forming guides for the insertion of wedges between them and the threads of a screwed member such as a bolt, and other raised portions or lugs thereon shaped so as to turn out and clench the fore ends of a wedge or wedges driven against them while they are being inserted thus preventing the cap or muzzle disengaging itself from either the 40 bolt or nut.

Claim 3. In locking devices of Claim 1 and 2, on a metal cap or muzzle used for locking one member to another such as a nut or bolt to prevent their disengagement, the use of lugs, projections, or guides, for securing a wedge or wedges which lie between them and the threads or the like on either side of a 45 member such as a nut, bolt, or the like.

Dated this 7th day of September 1905.

DALE MARSHALL.

*[This Drawing is a reproduction of the Original on a reduced scale.]*

FIG 1

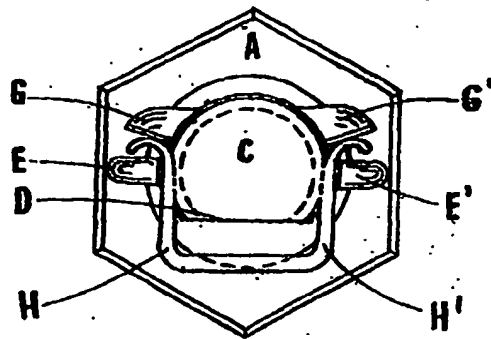


FIG 3

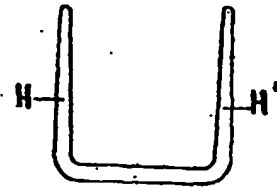


FIG 2

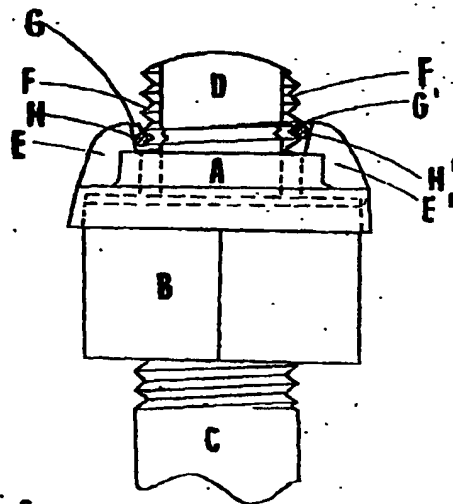


FIG 4

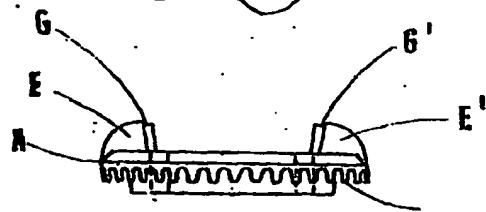


FIG 5

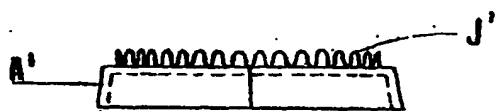
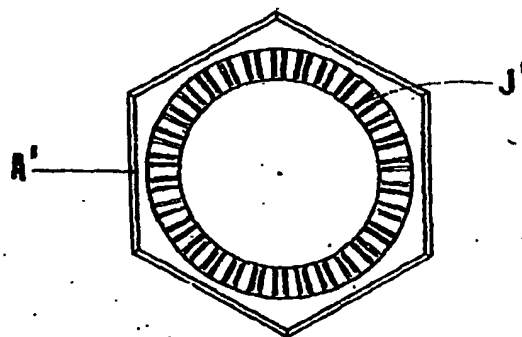


FIG 6



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